

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
17 March 2005 (17.03.2005)

PCT

(10) International Publication Number
WO 2005/023239 A1

(51) International Patent Classification?: **A61K 31/198**,
31/401, 31/375, 31/353, 35/78, 33/06, 33/04, 33/34, 33/32,
A61P 9/00, 9/10

(74) Agent: **DEHN, Frank**; Alexanderstrasse 3, 70184
Stuttgart (DE).

(21) International Application Number:
PCT/EP2004/009263

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(22) International Filing Date: 18 August 2004 (18.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/657,019 5 September 2003 (05.09.2003) US
10/801,262 15 March 2004 (15.03.2004) US

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

(71) Applicant and
(72) Inventor: **RATH, Matthias** [DE/NL]; Ambachstraat 20,
NL-7609 KL Almelo (NL).

Published:

— with international search report

(72) Inventors: **NIEDZWIECKI, Aleksandra**; 1394 Heck-
man Way, San Jose, CA 95129 (US). **IVANOV, Vadim**;
6535 Ridgewood Drive, Castro Valley, CA 94552 (US).
ROOMI, Waheed; 983 La Mesa Terrace E, Sunnyvale, CA
94086 (US).

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.



WO 2005/023239 A1

(54) Title: **PHARMACEUTICAL COMPOSITION COMPRISING I.A. VITAMIN C, MAGNESIUM, GREEN TEA EXTRACT
FOR RETARDING CARDIOVASCULAR DISEASES**

(57) Abstract: The present invention provides pharmaceutical compositions comprising lysine, proline, arginine, vitamin C, mag-
nesium, green tea extract, N-acetyl-cysteine, selenium, copper, manganese and one pharmaceutical acceptable component selected
from the group consisting of a carrier, a diluent, and an excipient, wherein the pharmaceutical composition without the acceptable
component contains 7-9 wt % magnesium, 20-30 wt % ascorbic acid and 11-25 wt % green tea extract. A method of treating cardio-
vascular diseases using the pharmaceutical compositions are also disclosed, more preferably for the treatment of post-menopausal
women.